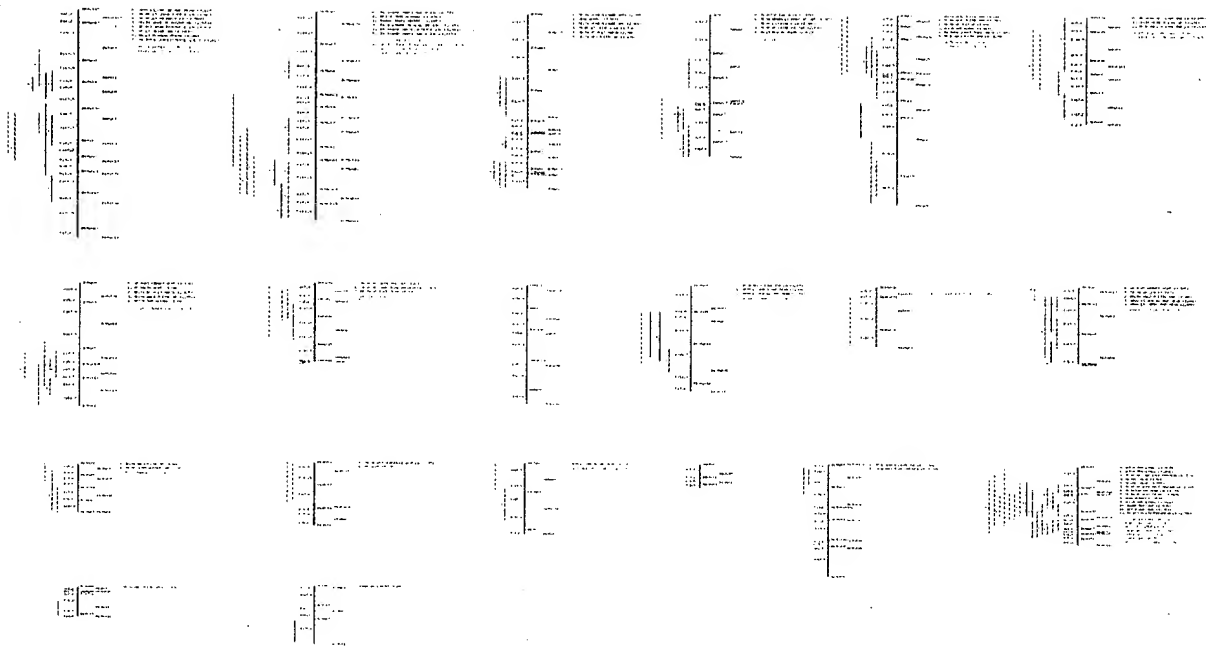


*Figure 1*

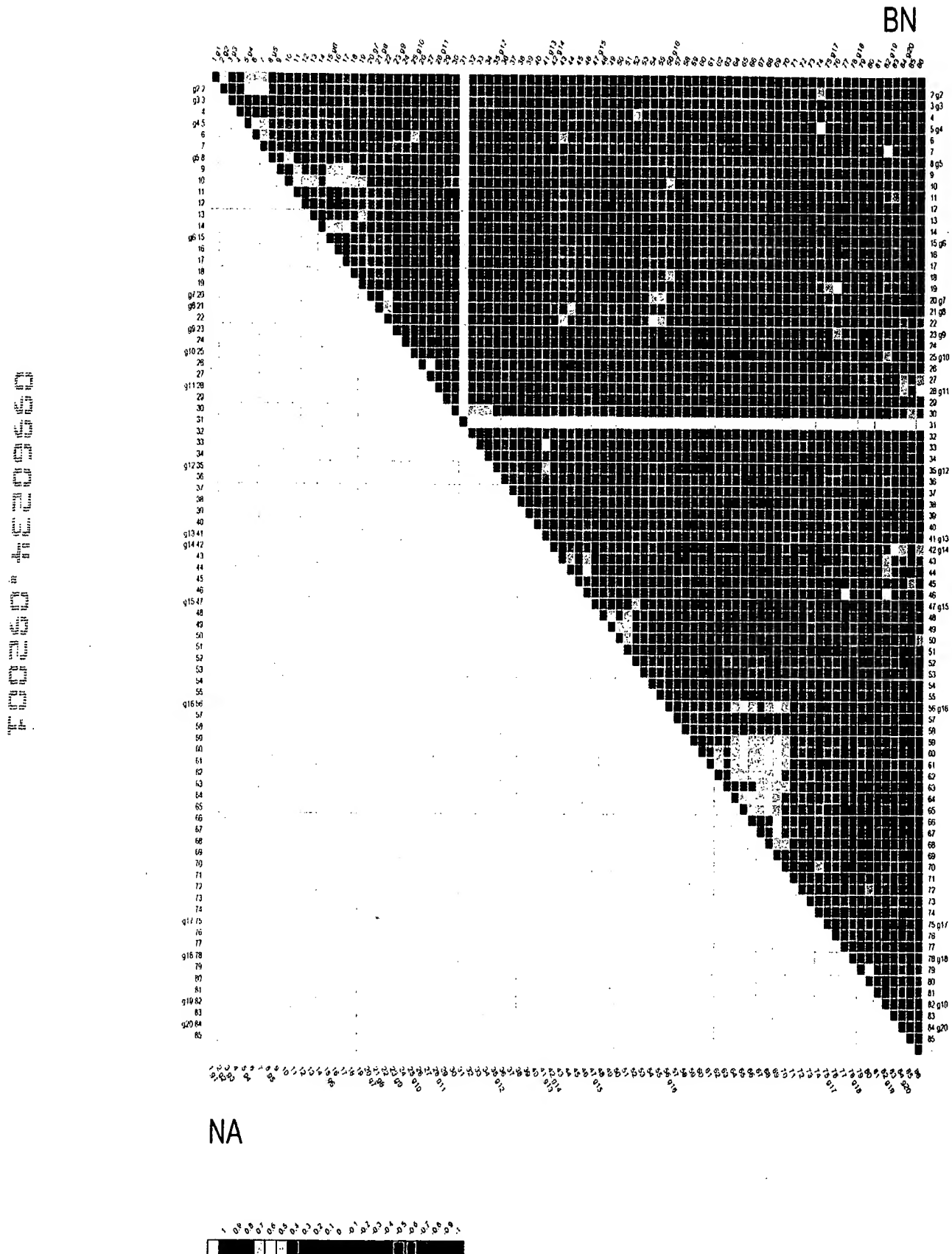


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A high-contrast, black and white image showing a large, dark, irregular shape on a light background. The shape is composed of many small, dark, pixelated squares, suggesting a digital or mosaic-like texture. The shape is roughly triangular, with its base at the top and its point extending downwards. The background is light gray with a faint grid pattern.

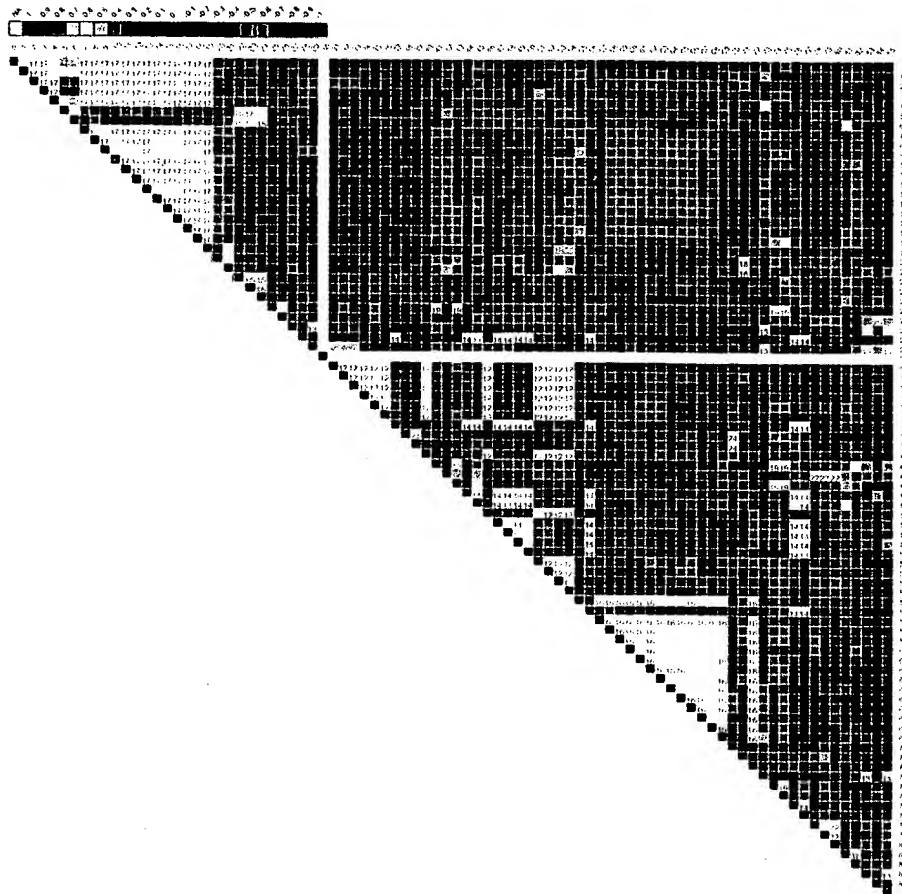
0 9 8 0 1 6 5 0 3 2 0 0 1 2 3 4 5 6 0 1 0 8 9 1

Figure 3: Functionally clustered physiological profile

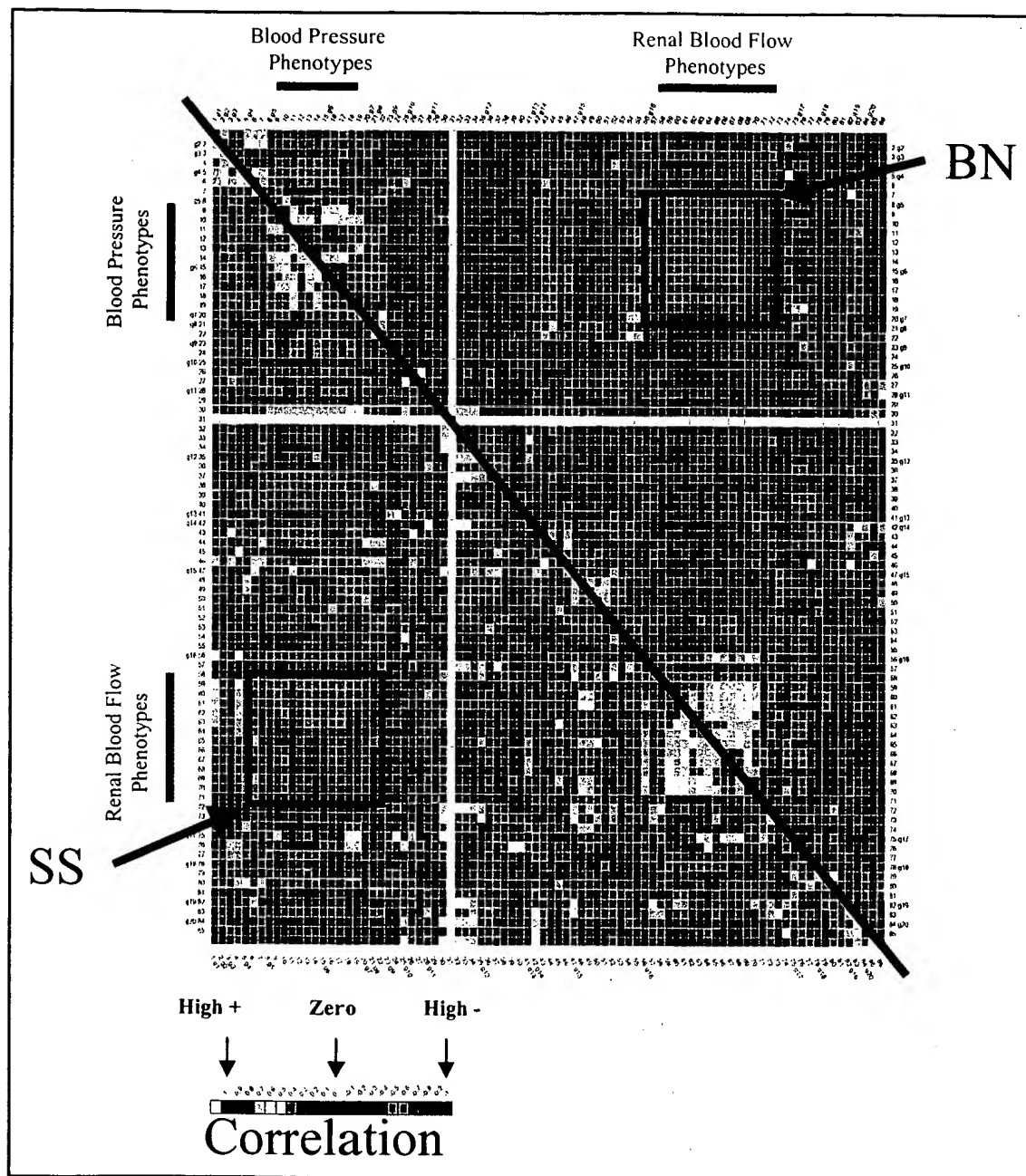


**Figure 4: Composite matrices of two physiological profiles generated by functional clustering and algorithm-based clustering**

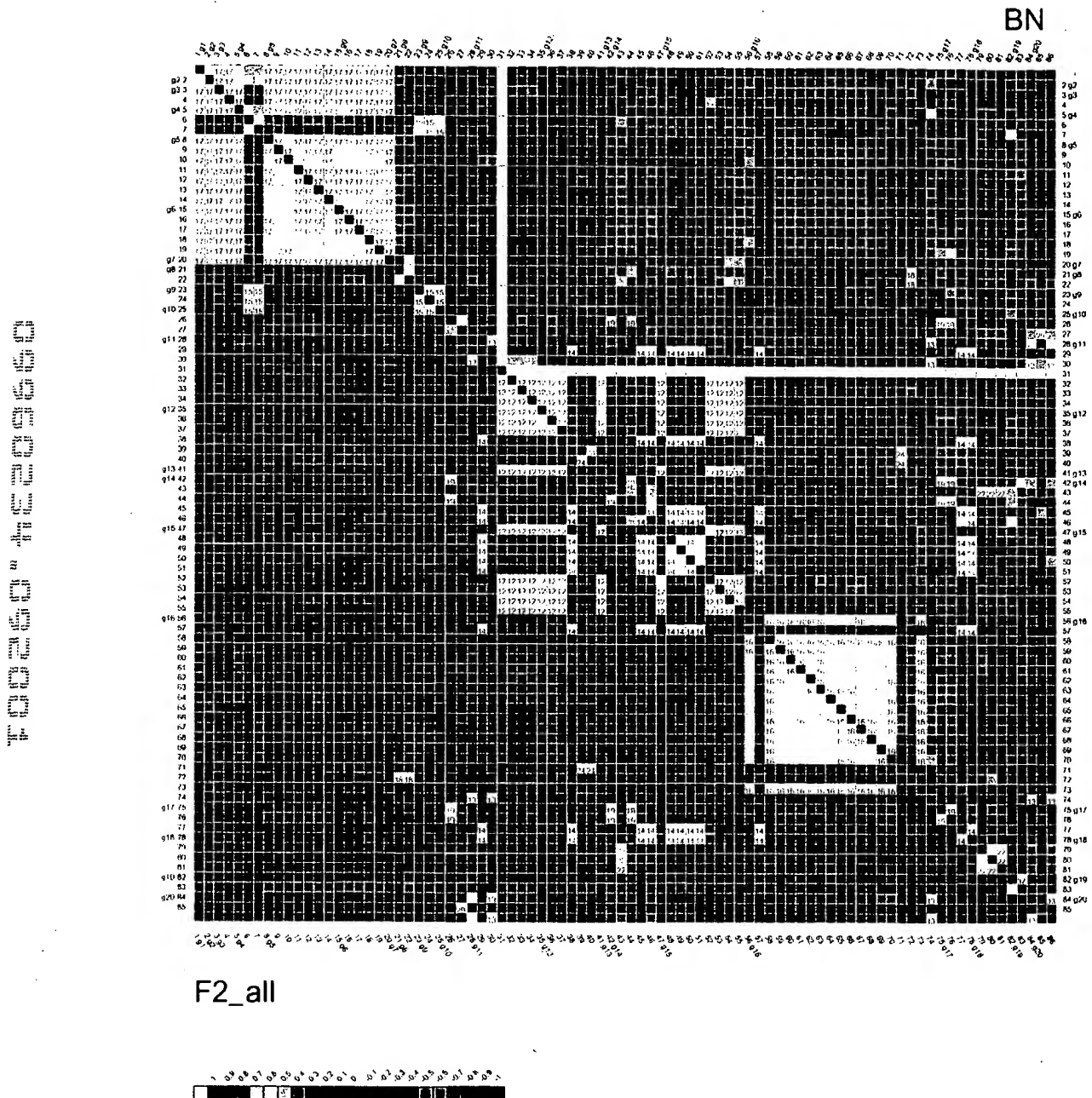
4030250 "46609552



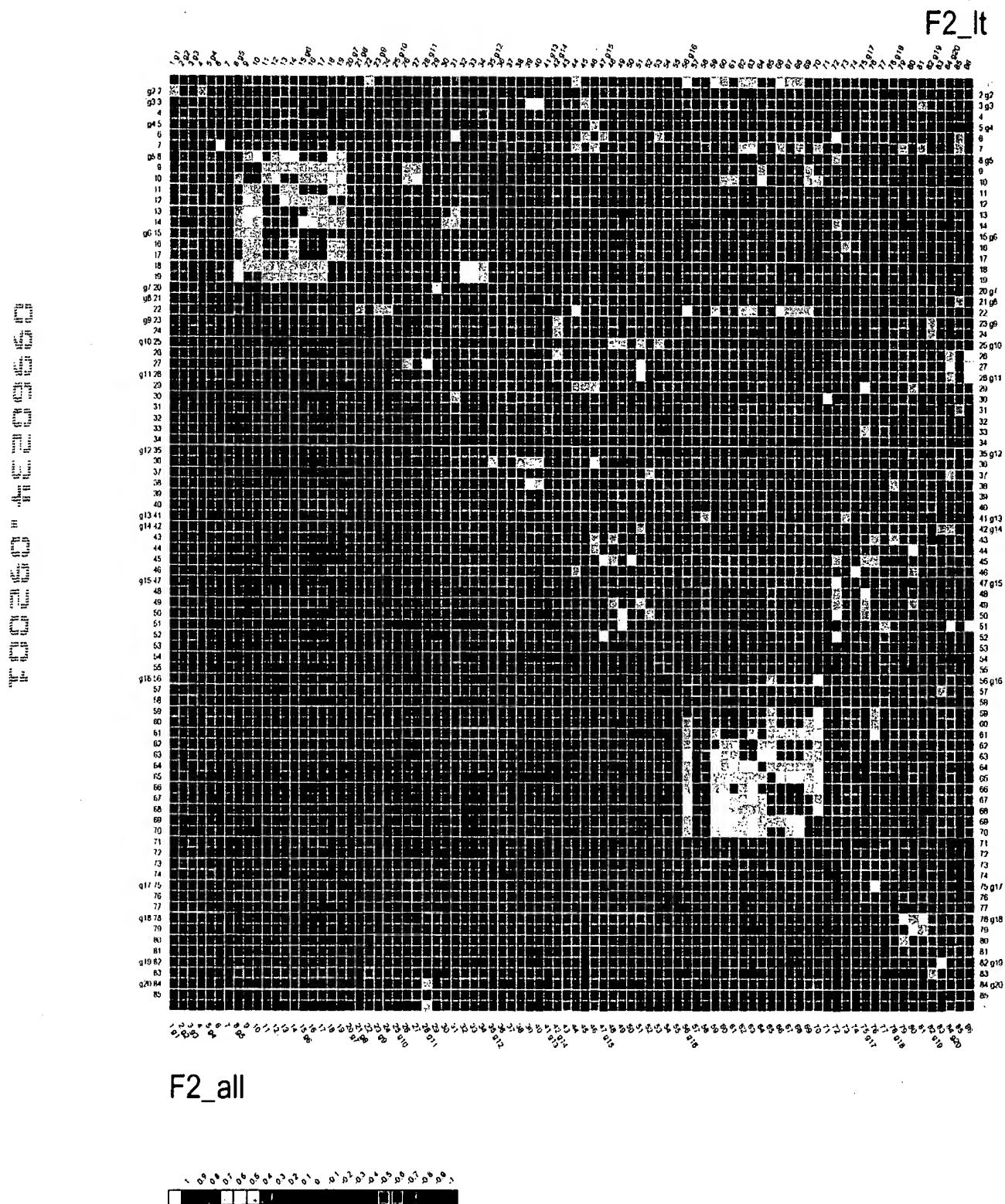
*Figure 5: Physiological Profiling of autoregulation of blood flow in the SS and BN rat.*



**Figure 6: Composite profiles of parental BN and F2 progeny rats generated by overlaying functionally clustered correlation matrices with algorithm clustered correlation matrices**



**Figure 7A: Physiological profiles of the entire F2 population and the F2 progeny population that fall in the left 10 % of a distribution after a salt challenge**



**Figure 7B: Physiological profiles of the entire F2 population and the F2 progeny population that fall in the right 10 % of a distribution after a salt challenge**

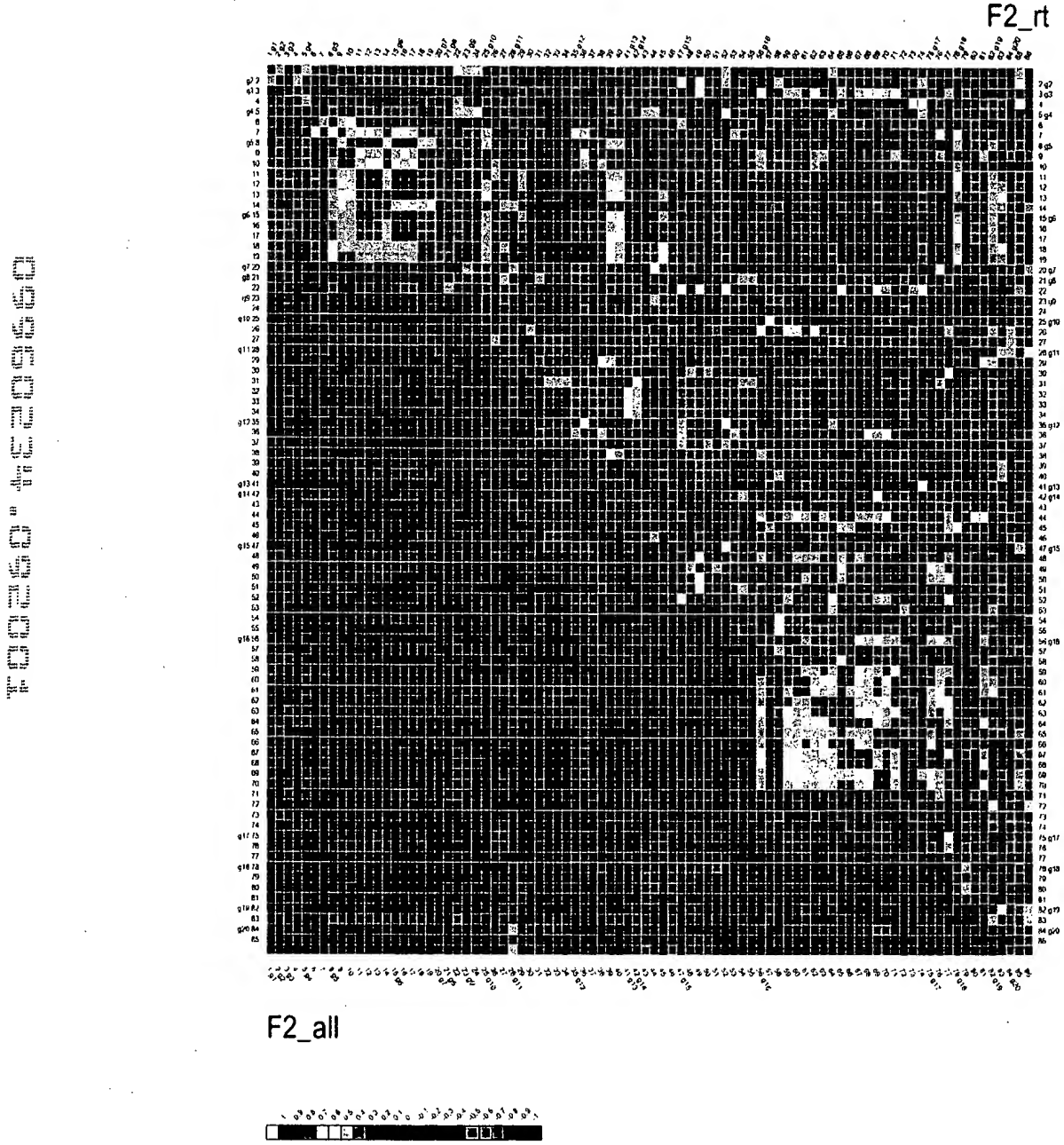
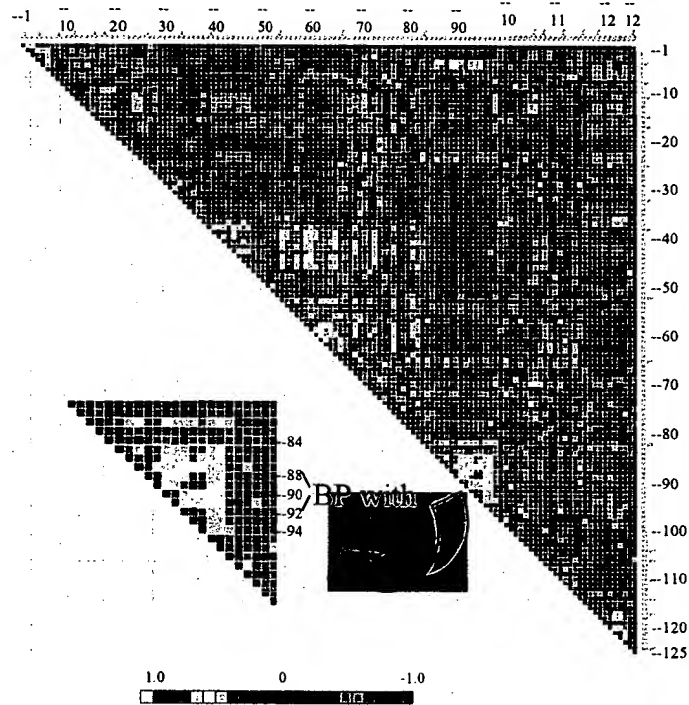




Figure 8A

F2 male genotype homozygote SS/SS at D10Mgh14 marker on chr 10



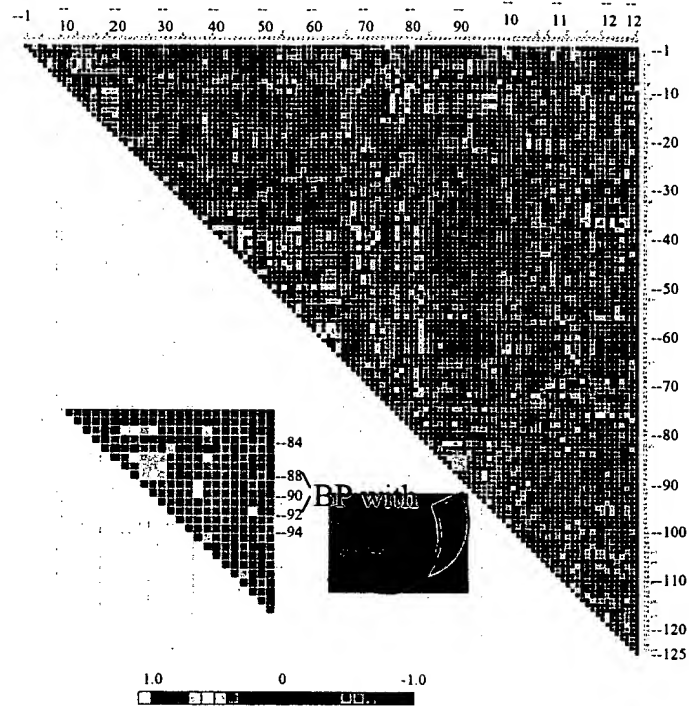
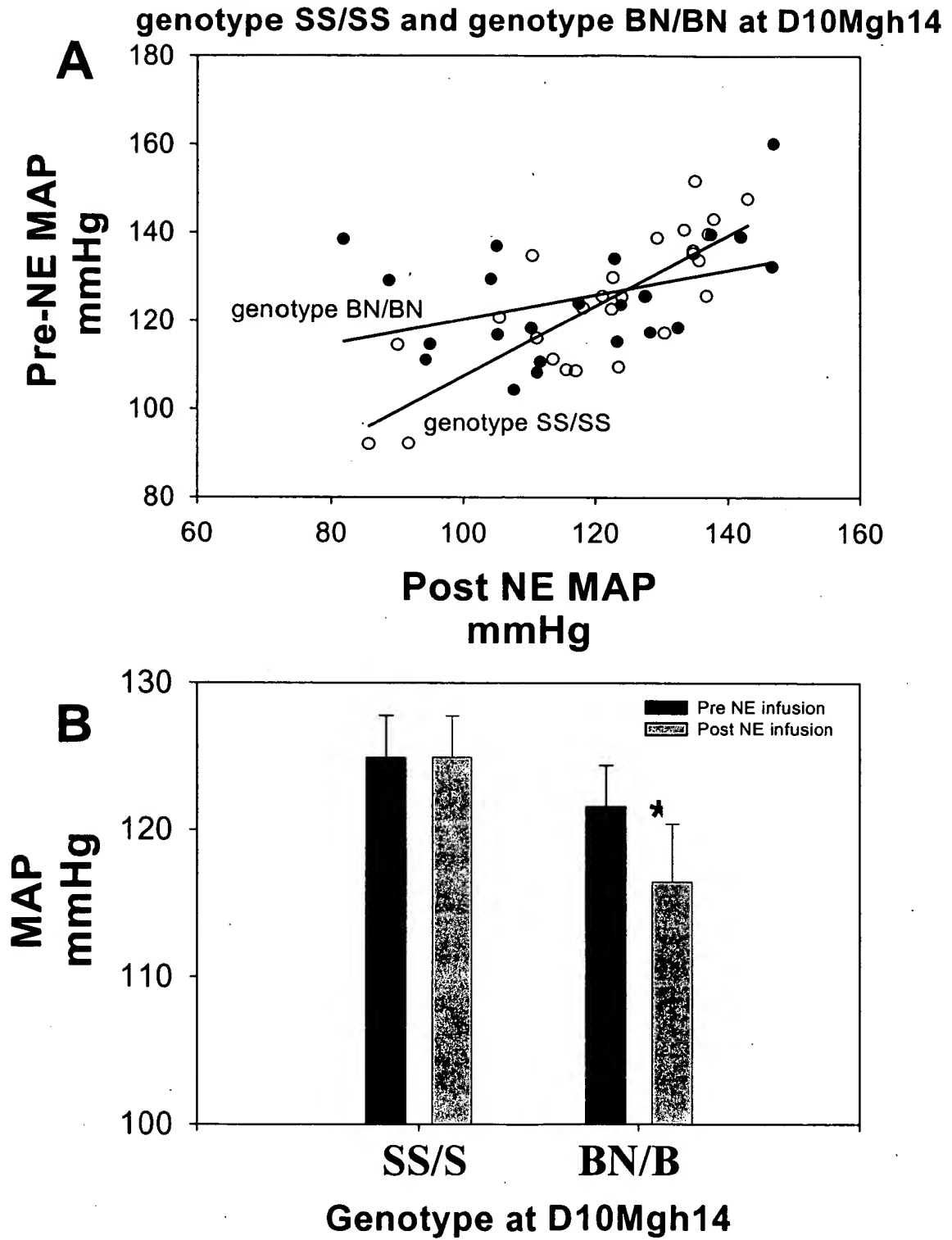
$$\begin{array}{ccccccc} \text{matrix} & \left\{ \begin{array}{c} \text{entry}_{11}, \\ \vdots \\ \text{entry}_{n1} \end{array} \right\} & \left\{ \begin{array}{c} \text{entry}_{12}, \\ \vdots \\ \text{entry}_{n2} \end{array} \right\} & \dots & \left\{ \begin{array}{c} \text{entry}_{1m}, \\ \vdots \\ \text{entry}_{nm} \end{array} \right\} & \text{in} & \left\{ \begin{array}{c} \text{rows} \\ \vdots \\ \text{cols} \end{array} \right\} \end{array}$$
$$\begin{array}{ccccccc} \text{matrix} & \left\{ \begin{array}{c} \text{entry}_{ij} \\ \vdots \\ \text{entry}_{in} \end{array} \right\} & \left\{ \begin{array}{c} \text{row}_1 \\ \vdots \\ \text{row}_n \end{array} \right\} & \text{vector} & \left\{ \begin{array}{c} \text{vec}_1 \\ \vdots \\ \text{vec}_n \end{array} \right\} & \text{in} & \left\{ \begin{array}{c} \text{row}_1 \\ \vdots \\ \text{row}_n \end{array} \right\} \\ & & & & & & \left\{ \begin{array}{c} \text{col}_1 \\ \vdots \\ \text{col}_m \end{array} \right\} \end{array}$$


Figure 9



*Figure 10: physiological profiles of French Canadian and African American hypertensive patients*

